APPLIED MATHEMATICS AND COMPUTATION

VOLUME 26

MICHAEL A. GOLBERG
The Perturbed Galerkin Method for Cauchy Singular Integral Equations with Constant Coefficients 1

WILHELM HEINRICHS
Collocation and Full Multigrid Methods 35

A. H. ZEMANIAN AND HYEONG KEON AN
Finite-Difference Analysis of Borehole Flows Involving Domain Contractions Around Three-Dimensional Anomalies 45

G. ADOMIAN
Analytic Solutions for Nonlinear Equations 77

T. SASAGAWA
Existence Theorem for the Difference Riccati Equations 89

MICHAEL A. GOLBERG
A Note on a Superconvergence Result for the Generalized Airfoil Equation 105

N. G. ZAMANI
Boundary Element Simulation of the Cathodic Protection System in a Prototype Ship 119

MELVIN R. SCOTT AND GARY R. MONTRY
Some Experiments in Multitasking on an ELXSI System 6400 135

NEGASH G. MEDHIN AND M. SAMBANDHAM
Mixed Min-Max Optimization Problem with Restrictions 151

RICHARD L. PATTERSON AND ZHEN QUI MA
Sensitivity Analyses of Parameters of a $M(t)/G/\infty$ Stochastic Service System 169

Charles I. Goldstein and Seymour V. Parter
On the Norm Equivalence of Singularly Perturbed Elliptic Difference Operators 179

Jerry H. Tucker, Moiez A. Tapia, and A. Wayne Bennett
Boolean Integral Calculus 201

A. S. Wexler, R. E. Kalaba, L. S. Tesfatsion, and D. J. Marsh
An Invariant-Imbedding Solution of General Linear Two-Point Boundary-Value Problems 237

R. Hempel and C. Thompson
A Note on the Vectorization of Algebraic Multigrid Algorithms 245

Renzo Mosetti
Optimal Policies in a Bioeconomic Model of Eutrophication 257

N. Papamarkos, G. Vachtsevanos, and B. Mertzios
On the Optimum Approximation of Real Rational Functions via Linear Programming 267

L. Duckstein, P. H. Bartels, and J. E. Weber
Organization of a Knowledge Base by Q-Analysis 289

Wolfgang Baaske
Principal Planes: Visual Structure Analysis by Cluster Biplot Projection Pursuit in a Multinational Survey 303

C. Coppin and D. Greenspan
A Contribution to the Particle Modeling of Soap Films 315

John M. Bownds
A Formal Solution to a Classical Initial-Boundary Value Problem in Groundwater Hydraulics 333